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1 **Backup and storage management in distributed heterogeneous environments**
Eitel, P.;
Mass Storage Systems, 1994. 'Towards Distributed Storage and Data Management Systems.' First International Symposium. Proceedings., Thirteenth IEEE Symposium on , 12-16 June 1994
Pages:124 - 126

[Abstract] [PDF Full-Text (184 KB)] **IEEE CNF**

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2 **A linear time, constant space differencing algorithm**
Burns, R.C.; Long, D.D.E.;
Performance, Computing, and Communications Conference, 1997. IPCCC 1997., IEEE International , 5-7 Feb. 1997
Pages:429 - 436

[Abstract] [PDF Full-Text (752 KB)] **IEEE CNF**

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3 **NIGELOG: protecting logging information by hiding multiple backups in directories**
Takada, T.; Koike, H.;
Database and Expert Systems Applications, 1999. Proceedings. Tenth International Workshop on , 1-3 Sept. 1999
Pages:874 - 878

[Abstract] [PDF Full-Text (504 KB)] **IEEE CNF**

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4 **File storage management for TFTR physics data**
Ludescher, C.; Carroll, T.; Murphy, J.; Zarnstorff, M.;
Fusion Engineering, 1991. Proceedings., 14th IEEE/NPSS Symposium on , 30 Sept.-3 Oct. 1991
Pages:856 - 859 vol.2

[Abstract] [PDF Full-Text (396 KB)] **IEEE CNF**

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1 **Optimal choice of local regularization weights in iterative image restoration**
Choy, S.S.O.; Yuk-Hee Chan; Wan-Chi Siu;
Circuits and Systems, 1996. ISCAS '96., 'Connecting the World'., 1996 IEEE International Symposium on , Volume: 2 , 12-15 May 1996
Pages:604 - 607 vol.2

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1 **Optimal choice of local regularization weights in iterative image restoration**
Choy, S.S.O.; Yuk-Hee Chan; Wan-Chi Siu;
Circuits and Systems, 1996. ISCAS '96., 'Connecting the World'., 1996 IEEE International Symposium on , Volume: 2 , 12-15 May 1996
Pages:604 - 607 vol.2

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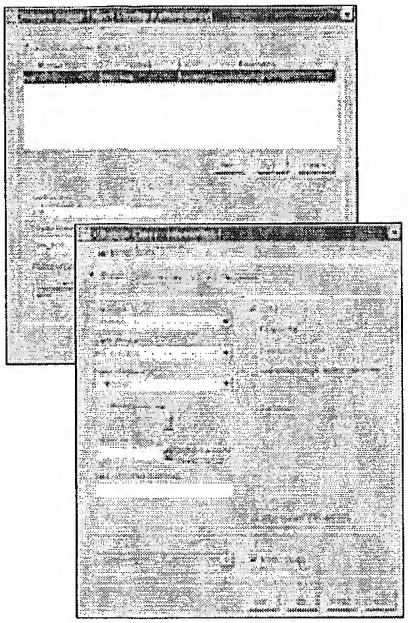
VERITAS

VERITAS NetBackup™

ServerFree Agent



The intuitive graphical user interface allows users to define a frozen image method.

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Eliminating the backup footprint on a production server is a requirement for many of today's online, all-the-time e-business applications. Even the slightest impact or downtime on these mission critical systems can translate into significant business losses. Backup and recovery solutions must provide both efficiency and speed to support these environments.

VERITAS Software has a history of providing the most leading-edge backup and recovery solutions on the market today. VERITAS continues this tradition with the introduction of **VERITAS NetBackup ServerFree Agent**. Part of the **VERTEX Initiative** solutions set, the NetBackup ServerFree Agent provides snapshot backup technology combined with server free data movement for storage area network (SAN) environments. A data snapshot can be created in seconds and than backed up directly from disk to tape. Users can significantly reduce CPU and I/O overhead from application or database servers while eliminating the backup window altogether. The result is a new level of data protection and availability.

Product Highlights

- **Graphical User Interface** — NetBackup ServerFree Agent offers a Java interface for maximum ease of use and lower training costs.
- **Selectable Frozen Image Methods** — NetBackup ServerFree Agent supports a variety of frozen image or snapshot backup methods.
- **Advanced Mapping Technology** — Mapping the logical (files) to the physical (blocks) enables the ServerFree Agent to handle unforeseen system events while maintaining data integrity.
- **Multiple Data Movement Methods** — SCSI Extended Copy Command is embedded in either an FC/SCSI Bridge or a NetBackup Media Server.
- **SAN Investment Leverage** — The VERITAS NetBackup ServerFree Agent exploits the SAN architecture by taking advantage of the ability to move data directly from disk to tape.
- **Online Oracle8*i* Database Backup** — A fully RMAN-integrated, uninterrupted Oracle database backup solution with no performance impact on the primary server.

VERITAS Vertex INITIATIVE

Version 4.0v

VERITAS™

VERITAS NetBackup™ 4.5 *for Oracle ServerFree Agent*

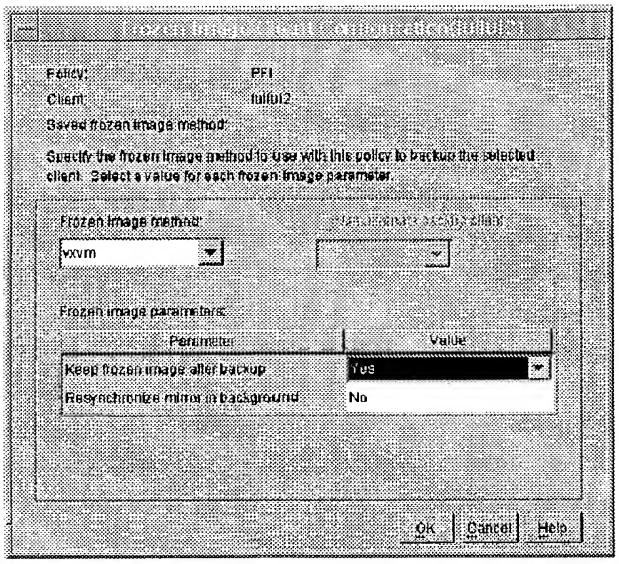
REDEFINING ENTERPRISE BACKUP AND RECOVERY

VERITAS Software has a history of providing leading-edge backup and recovery solutions. VERITAS continues this tradition with its newest addition specifically designed for Oracle data protection, the **VERITAS NetBackup™ *for Oracle* ServerFree Agent**. The NetBackup *for Oracle* ServerFree Agent provides server-free data movement for e-business applications. A data snapshot of an Oracle database can be created in seconds and then backed up directly from disk to tape. Users can eliminate the CPU and I/O overhead on Oracle database servers while eliminating the backup window altogether. The result is a new level of data protection and availability.

VERITAS NetBackup *for Oracle* ServerFree Agent takes advantage of a feature in Oracle8*i*'s (and higher) media management API known as Proxy Copy. Proxy Copy enables NetBackup to remove the data movement aspect (and associated overhead) from Oracle. Oracle Recovery Manager (RMAN), the command interface used by Oracle to run backup and restore jobs, provides NetBackup with a list of files for backup/restore, and the NetBackup *for Oracle* ServerFree Agent can make all decisions associated with how and when to move the data. This unique feature allows the NetBackup *for Oracle* ServerFree Agent to take advantage of standard RMAN features such as the ability to backup/restore at the database, datafile or tablespace level without affecting the Oracle database server.

PRODUCT HIGHLIGHTS

- **Online Oracle 8i and Higher Database Backup**— NetBackup *for Oracle* ServerFree Agent provides a fully integrated Oracle Recovery Manager (RMAN) database backup solution with no measurable performance impact on the Oracle server.
- **Selectable Snapshot Methods** — NetBackup *for Oracle* ServerFree Agent supports a variety of snapshot backup methods.
- **Advanced Mapping Technology** — Mapping the logical (file) to the physical (blocks) enables the Oracle ServerFree Agent to handle unforeseen system events while maintaining data integrity.
- **Multiple Data Movement Methods** — The Oracle ServerFree Agent can take advantage of the SCSI Extended Copy Command that is embedded in a supported hardware device or move data via a NetBackup media server.



The new configurator in the NetBackup intuitive graphical user interface allows users to easily select a snapshot method (frozen image) and combine it with a sophisticated data movement like server-free backup.

SUPPORTED PLATFORMS

- VERITAS NetBackup DataCenter™
- Oracle 8i and higher
- Sun Solaris, HP-UX, IBM AIX*
- For the latest software and hardware compatibility information, please see the Compatibility Lists at www.support.veritas.com or contact your VERITAS sales representative or authorized VERITAS reseller.

*Can be used in conjunction with an IBM AIX Media Server only. The NetBackup ServerFree Agent is not supported on the IBM AIX platform.

HOW IT ALL WORKS

1. Data Snapshot

VERITAS NetBackup requires a snapshot of the Oracle database to be able to move backups efficiently without the Oracle database server. The first step in the snapshot creation process is to quiesce the Oracle database (on the NetBackup client) for a few seconds by placing it into backup mode. This process flushes all buffers and makes sure the data is at a known point in time. Once this point has been established, a backup can be engaged by selecting one of several snapshot methods for use with NetBackup. Once the snapshot is taken, the Oracle database can be released.

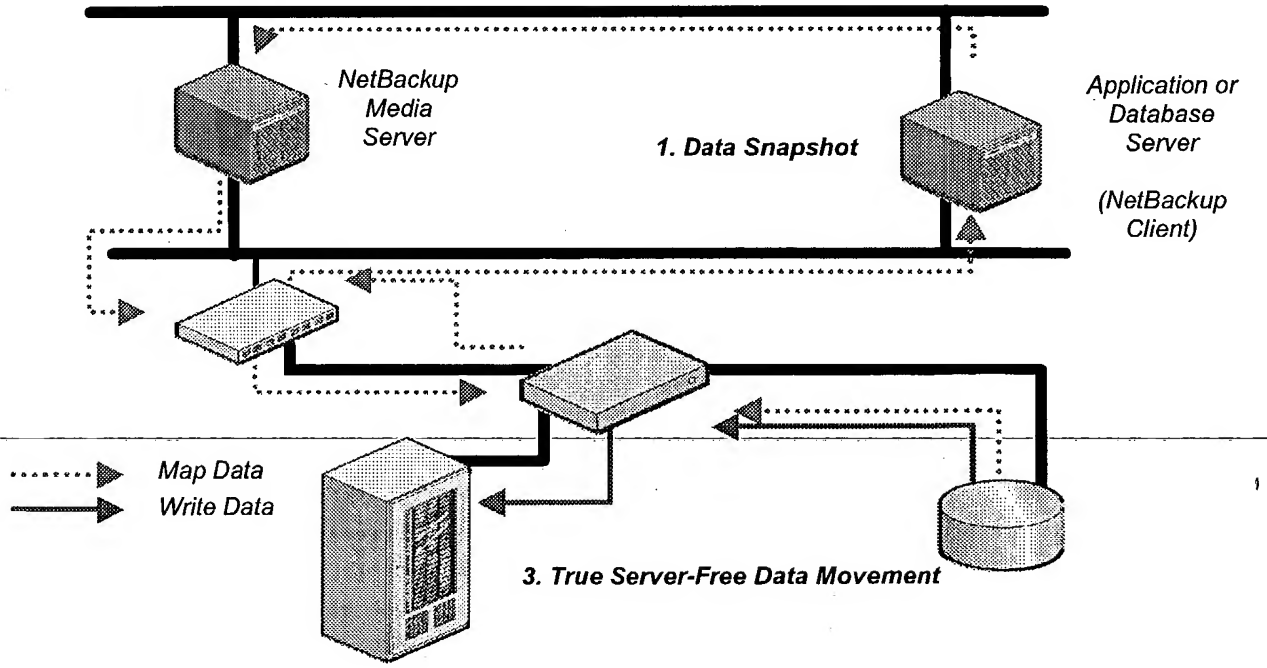
2. Logical Disk Object Mapping — The Underlying Difference

The underlying technology layer between a snapshot and server-free data movement is logical disk object mapping. VERITAS has developed this technology because it is crucial that the data is reliably mapped so its physical location is known. After the snapshot has been taken, the ServerFree Agent maps the data by drilling down through the I/O stack and linking the logical file names to the actual physical blocks of data. In the event of a file system reorganization or other unexpected operation during backup, the data can be remapped to help ensure its integrity is preserved. This technology layer is essential for server-free data movement. Without it, the potential of data corruption is significant when data needs to be restored to the server.

3. True Server-Free Data Movement

When the snapshot and mapping operations are completed, the data is ready to be moved by the SCSI Extended Copy Command that resides in a supported hardware device or via a NetBackup media server. In either architecture, the application or database server no longer moves the data. Instead, the SCSI Extended Copy Engine or the NetBackup media server handle the actual movement of backup data directly from disk to tape in the storage architecture.

2. Logical Disk Object Mapping



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... 9 **NetBackup SAN** Shared Storage Option (SSO ... 96 **ServerFree Agent** . ... ix About These Notes The **VERITAS NetBackup** mission is to provide heterogeneous data protection ...
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... itself loads - it does it when LILO starts loading the actual kernel >> **image**. ... Priority:-1 **extents**:1 eth0: Setting full-duplex based on MII#0 link ...
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... These two symptoms are the famous **extents** of the Rickmanitis Vulgar to ... to wrestle me to the ground in the **frozen** foods section, but I fended him ...
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phpMyAdmin MySQL-Dump # version 2.2.0rc3 # http://phpwizard.net ...
... our host does carry out regular **backups** of all the databases and after some ... is true to life ... and to some **extents** it is, problem is the pilot can ...
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... It is one of the most powerful **backup** packages around, supporting a wide ... extensive use of Btrees (directories, **extents**, free space) to aid both ...
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1 **The evolution of the high density 1/4" cartridge tape drive**
Valliant, W.;
Magnetics, IEEE Transactions on , Volume: 17 , Issue: 4 , Jul 1981
Pages:1438 - 1441

[Abstract] [PDF Full-Text (400 KB)] IEEE JNL

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2 **An improved reliability model for redundant protective systems-Markov models**
Anderson, P.M.; Chintaluri, G.M.; Magbuhat, S.M.; Ghajar, R.F.;
Power Systems, IEEE Transactions on , Volume: 12 , Issue: 2 , May 1997
Pages:573 - 578

[Abstract] [PDF Full-Text (564 KB)] IEEE JNL

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3 **Power interruption costs to industrial and commercial consumers of electricity**
Sullivan, M.J.; Vardell, T.; Johnson, M.;
Industry Applications, IEEE Transactions on , Volume: 33 , Issue: 6 , Nov.-Dec. 1997
Pages:1448 - 1458

[Abstract] [PDF Full-Text (208 KB)] IEEE JNL

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4 **An improved model for protective-system reliability**
Anderson, P.M.; Agarwal, S.K.;
Reliability, IEEE Transactions on , Volume: 41 , Issue: 3 , Sept. 1992
Pages:422 - 426

[Abstract] [PDF Full-Text (452 KB)] IEEE JNL

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5 **Submersible pop-up buoy for RF communication**
Macha, W.R.; Rogers, K.E.;
OCEANS '97. MTS/IEEE Conference Proceedings , Volume: 1 , 6-9 Oct. 1997
Pages:186 - 191 vol.1

[Abstract] [PDF Full-Text (672 KB)] IEEE CNF

6 **Volume management in SAN environment**
Chang-Soo Kim; Gyoung-Bae Kim; Bum-Joo Shin;
Parallel and Distributed Systems, 2001. ICPADS 2001. Proceedings. Eighth International Conference on , 26-29 June 2001
Pages:500 - 505

[Abstract] [PDF Full-Text (512 KB)] IEEE CNF

7 **Configuring and tuning archival storage systems**
Moore, R.; Lopez, J.; Lofton, C.; Schroeder, W.; Kremenek, G.; Gleicher, M.;
Mass Storage Systems, 1999. 16th IEEE Symposium on , 15-18 March 1999
Pages:158 - 168

[Abstract] [PDF Full-Text (1000 KB)] IEEE CNF

8 **ADSM: a multi-platform, scalable, backup and archive mass storage system**
Cabrera, L.-F.; Rees, R.; Steiner, S.; Hineman, W.; Penner, M.;
Compcon '95.'Technologies for the Information Superhighway', Digest of Papers. , 5-9 March 1995
Pages:420 - 427

[Abstract] [PDF Full-Text (800 KB)] IEEE CNF

9 **Algorithms for the management of remote backup data bases for disaster recovery**
Mohan, C.; Treiber, K.; Obermarck, R.;
Data Engineering, 1993. Proceedings. Ninth International Conference on , 19-23 April 1993
Pages:511 - 518

[Abstract] [PDF Full-Text (764 KB)] IEEE CNF

10 **Learnings and challenges of the Northern California earthquake [telephone services]**
Ireland, R.;
Telecommunications Energy Conference, 1990. INTELEC '90., 12th International , 21-25 Oct. 1990
Pages:1

[Abstract] [PDF Full-Text (76 KB)] IEEE CNF

11 **PG&E's cost-effective photovoltaic installations**
Jennings, C.;
Photovoltaic Specialists Conference, 1990., Conference Record of the Twenty First IEEE , 21-25 May 1990
Pages:914 - 918 vol.2

[Abstract] [PDF Full-Text (260 KB)] IEEE CNF

12 **Digital cross-connect systems-CEPT gateway application**
Reichard, D.W.;
Communications, 1988. ICC 88. Digital Technology - Spanning the Universe. Conference Record. IEEE International Conference on , 12-15 June 1988
Pages:331 - 335 vol.1

[Abstract] [PDF Full-Text (360 KB)] IEEE CNF

13 **Customer attitudes regarding electric outage costs and back-up generation**
LeBlanc, W.J.;
Power Systems, IEEE Transactions on , Volume: 3 , Issue: 4 , Nov. 1988
Pages:1823 - 1826

[Abstract] [PDF Full-Text (284 KB)] **IEEE JNL**

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14 **Data replication strategies for fault tolerance and availability on commodity clusters**
Amza, C.; Cox, A.L.; Zwaenepoel, W.;
Dependable Systems and Networks, 2000. DSN 2000. Proceedings International Conference on , 25-28 June 2000
Pages:459 - 467

[Abstract] [PDF Full-Text (220 KB)] **IEEE CNF**

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15 **Power interruption costs to industrial and commercial consumers of electricity**
Sullivan, M.J.; Vardell, T.; Johnson, M.;
Industrial and Commercial Power Systems Technical Conference, 1996. Conference Record, Papers Presented at the 1996 Annual Meeting., IEEE 1996 , 6-9 May 1996
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